

Overview

Booster vacuum pumps, also known as Roots vacuum pumps are generally used to increase the pumping speed of a system or with the goal of reaching a lower ultimate vacuum level. Booster pumps are used in a wide range of applications, most commonly used in the rough vacuum range, especially when high pumping speeds and low pressures are required, from atmosphere to 1x10⁻³ mbar. Due to the non-contact rotational design of these pumps, they are able to run at higher speeds, offering increased pumping speeds for the backing pumps. An added advantage is the lower energy consumption as compared to a single backing pump with the same pumping speed.

A multitude of applications

The most frequent use of the DRB roots vacuum pumps is as an enabler for smaller primary vacuum pumps. They are designed to boost the most demanding requirements for modern vacuum-based production processes. This allows for the compression of large volume flows of gases in the fine vacuum range. Common applications include those where rapid evacuations need to be achieved in the shortest possible cycle times.



High Speed PackagingSkin packaging for food preservation, inert environment in Pharmaceutical Industry and protection of sterile medical devices.



For product dehydration in food industry, Pharmaceutical, Dye and Chemical industry.



Vacuum Cooling

Rapid cooling with vacuum to enhance freshness and shelf life of your specific product like vegetables, fruit, flowers.



Industrial Vacuum

Multiple processes including altitude simulation, gas charging, catalytic convertors, leak testing, heat treatments.

Atlas Copco DRB 250-2000 Series

Simple and smart design for industry

- Integrated by-pass
- Shorter pumping down time for cyclic operation
- Protection against thermal overloading
- Able to switch on at atmospheric pressure with backing pump

Robust Technology

- Robust pump design
- Long service intervals and simple on-site maintenance

Energy efficiency & high performances

- High pumping speed range 250-2000 m³/h
- High performances IE3 three-phase motor
- Low power consumption and carbon emissions
- Low noise level

Easy and flexible installation

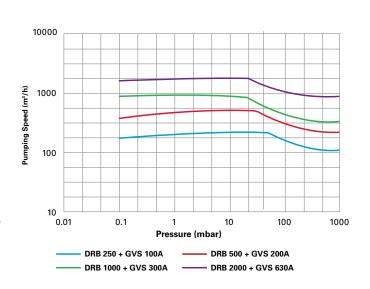
- Air cooled, no utility
- Compact design, easy to integrate into systems
- Easy to implement conversion from vertical to horizontal flow

Performance Curves

50Hz

10000 10000 10000 10000 10000 10000 Pressure (mbar) DRB 250 + GVS 100A DRB 500 + GVS 200A DRB 1000 + GVS 300A DRB 2000 + GVS 630A

60Hz





Technical Data

		DRB 250	DRB 500	DRB 1000	DRB 2000
Pumping speed-50Hz	m³/hr	253	505	1000	2050
	(cfm)	(149)	(297)	(589)	(1208)
Pumping speed-60Hz	m³/hr	304	606	1200	2460
	(cfm)	(179)	(357)	(707)	(1449)
Max. permissible pressure differential across pump	mbar	80			50
	(Torr)	(60)			(38)
Inlet/outlet connection		EN 1092-2-PN6-DN63		EN 1092-2-PN6 -DN100	EN 1092-2-PN6 -DN160
Nominal motor power	kW	1.1	2.2	4.0	7.5
	(hp)	(1.5)	(3.0)	(5.4)	(10.0)
Dimensions					
- Length	mm	735	840	1059	1277
	(inch)	(28.9)	(33.1)	(41.7)	(50.3)
- Width	mm	305	390	494	638
	(inch)	(12.0)	(15.4)	(19.4)	(25.1)
- Height	mm	300	340	396	530
	(inch)	(11.8)	(13.4)	(15.6)	(20.9)
Weight Net mass	kg	94	142	254	452
	(Ibs)	(207)	(313)	(560)	(997)







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